

TABLE I. General Statistics: 1963 and Earlier Years-continued

| Industry and year | Operating companies (number) | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | Cost of supplies, minerals received for preparation, fuels, purchased electric energy, and | Cost of purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Value of net shipments and receipts (\$1,000) | Quantity of primary products (1,000 short tons) | Capital expenditures (\$1,000) | Horsepower rating of power equipment (1,000) |
|---|------------------------------|----------------|---------------------------|----------------|-------------------|--|-----------|-----------------|---------------------------------|--|---|---|---|---|--------------------------------|--|
| | | Total (number) | With 20 employees or more | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours | Wages (\$1,000) | | | | | | | | |
| 1963 | 24 | 31 | 10 | 461 | 1,963 | 394 | 850 | 1,749 | 6,117 | 3,312 | 732 | 3,459 | 8,429 | 578 | 1,702 | 40 |
| 1958 | 34 | 74 | 10 | 567 | 1,919 | 496 | 1,028 | 1,515 | 4,531 | 2,387 | 1,277 | 6,889 | 6,433 | 439 | 1,306 | (NA) |
| 1954 | 58 | 84 | 10 | 616 | 1,722 | 579 | 1,235 | 1,523 | 4,048 | 2,735 | 294 | 6,669 | 6,239 | 692 | 408 | 30 |
| 1939 | 47 | 54 | (NA) | 566 | 496 | 512 | 1,016 | 383 | 859 | 1,122 | (NA) | (NA) | 981 | 214 | (NA) | 6 |
| 1929 | (NA) | 30 | (NA) | 693 | 730 | 598 | (NA) | 527 | 1,599 | 336 | 28 | (NA) | 1,935 | 205 | (NA) | 7 |
| 1919 | (NA) | 22 | (NA) | 378 | 317 | 349 | (NA) | 264 | 441 | 143 | (NA) | 584 | 584 | (NA) | (NA) | 2 |
| 1909 | 22 | 22 | (NA) | 275 | 136 | 248 | (NA) | 107 | 205 | 66 | (NA) | 271 | 271 | (NA) | (NA) | 1 |
| 1900 | 26 | 27 | (NA) | 279 | 127 | 232 | (NA) | 107 | 200 | 950 | (NA) | (NA) | 250 | 40 | (NA) | 1 |
| 1902 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 39 | 7 | (NA) | (NA) |
| 1889 | (NA) | 14 | (NA) | 119 | 39 | (NA) | (NA) | (NA) | 91 | 13 | (NA) | (NA) | 104 | 22 | (NA) | (NA) |
| 1880 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (z) |
| 1963, total | | | | | | | | | | | | | | | | |
| Industry 1459, Clay and Related Minerals, N.E.C., and Miscellaneous Clays Mines in Manufactures | | | | | | | | | | | | | | | | |
| Clay and related minerals, n.e.c., in industry | | | | | | | 7,392 | 16,61 | | | | 75,282 | | 35,90 | | |
| 1958, total | | | | 3,881 | | | 3,577 | 8,507 | 52,946 | | | 38,944 | (D) | 6,519 | | |
| Clay and related minerals, n.e.c., in industry | 49.5 | | | 1,961 | 18,798 | 3,599 | 3,815 | 8,110 | 24,4 | 22,686 | (NA) | 36,33 | (D) | 0 | | |
| 1954, total | 115 | 649 | 44 | 1,920 | 10,688 | 1,679 | 7,232 | 14 | 28,465 | 14,813 | 2,642 | 65,795 | 338 | 30,20 | (NA) | (NA) |
| 1954, total | 4.10 | 130 | 10 | 768 | 8,110 | 1,920 | 3,695 | 14 | 49,410 | 7,873 | (NA) | 29,274 | | 4 | 2,992 | 133 |
| Clay and related minerals, n.e.c., in industry | 529 | 319 | 44 | 1,999 | 15,974 | 3,500 | 3,537 | 6,988 | 19,132 | 18,169 | (NA) | 36 | (D) | 4,972 | (NA) | (NA) |
| 1939, total | 113 | 703 | 36 | 11 | 8,920 | 1,731 | 7,612 | 7,054 | 30,27 | 11,926 | 2,187 | 521 | (D) | 25,23 | (NA) | (NA) |
| 1939, total | 439 | 126 | 8 | 769 | 7,054 | 1,769 | £,4 | 11,94 | 8 | 6,243 | (NA) | 40,693 | 36,521 | 2 | 3,971 | (NA) |
| Clay and related minerals, n.e.c., in industry | 173 | 577 | (NA) | 3,883 | 12,424 | 3,774 | 11 | 3,30 | 30,481 | 10,903 | (NA) | 13,159 | (D) | 30,22 | (NA) | (NA) |
| 1939, total | 173 | 805 | 22 | 1,283 | 4,362 | 1,174 | 3,881 | 11,155 | 4,695 | 1,178 | 1,25 | 1,25 | (D) | 7 | (NA) | (NA) |
| Clay and related minerals, n.e.c., in industry | (NA) | 187 | (NA) | 2 | 8,062 | 2,600 | 5,201 | 8,062 | 19,326 | 6,208 | (NA) | 534 | 25 | 4,173 | 1,869 | 74 |
| 1939, total | 527 | 618 | (NA) | 600 | 3,310 | 3,205 | 6,083 | 3,161 | 6,413 | 1,464 | (NA) | (NA) | 534 | 26 | (NA) | (NA) |
| Fire clay, kaolin and ball clay, and clay and related minerals, n.e.c. | (NA) | 621 | (NA) | 3,294 | 813 | 677 | (NA) | 739 | 2,039 | 302 | (NA) | (NA) | 7,877 | 16,22 | (NA) | (NA) |
| 1919 | 467 | 550 | (NA) | 2,575 | 2,497 | 2,528 | (NA) | 2,422 | 4,374 | 1,162 | (NA) | (NA) | 5,536 | 3 | (NA) | 65 |
| 1909 | (NA) | 204 | (NA) | 4,880 | 5,153 | 4,490 | (NA) | 4,224 | 9,917 | 2,880 | 503 | (NA) | 12,797 | (NA) | (NA) | (NA) |
| 1902 | (NA) | 356 | (NA) | 6,386 | 6,956 | 5,901 | (NA) | 6,019 | 9,549 | 2,675 | (NA) | 12,224 | 12,193 | (NA) | (NA) | (NA) |
| 1889 | 273 | 274 | (NA) | 3,571 | 1,630 | 3,326 | (NA) | 1,397 | 2,562 | 452 | (NA) | 3,014 | 3,014 | (NA) | (NA) | 35 |
| 1880 | 205 | 206 | (NA) | 2,618 | 1,110 | 2,433 | (NA) | 959 | 1,815 | 2,86 | (NA) | (NA) | 2,101 | 4,408 | (NA) | 24 |
| 1860 | (NA) | 9 | (NA) | 95 | 31 | (NA) | (NA) | (NA) | 103 | 39 | (NA) | (NA) | 142 | (NA) | (NA) | (NA) |

Note: See appendix A for explanation of column captions. For more detailed historical statistics for these industries see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. 1.

(NA) Not available.

(X) Not applicable. Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than one-half of the unit of measure specified.

1. Represents the product indicated by the name of the industry. For 1963, 1958, and 1954, for the mineral products, represents net shipments (gross shipments less minerals received from other establishments) and for mines in manufacturing establishments, represents shipments of clay plus production of clay for use at the same establishments in the manufacture of cement, structural clay products, and pottery production. For 1939 and earlier years, represents net production.

2. Number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are shown for production, development, and exploration workers and for all employees.

3. Includes the estimated value of clay produced and used in the same establishment in the manufacture of cement, structural clay products, and pottery products.

4. Represents the sum of figures shown for separate industries and probably includes some duplication due to the same company operating in more than one industry.

5. Represents number of mines.

6. Excludes the cost of minerals received for preparation.

7. The figures for number of operating companies and number of establishments include data for 2 nonproducing establishments for which other data are combined with figures for metal mining.

8. Figures for average employment were reduced to a 300-day basis for establishments which operated for a shorter period.

9. Includes crude bentonite produced in other industries, amounting to less than one percent of the total shown.

10. For 1939, establishments primarily producing rotary drilling muds were classified in the Kaolin and Ball Clay Industry. For later years, all clays were classified by type rather than by use and establishments primarily producing rotary drilling muds in that year were probably classified in the Bentonite Industry or the Clay and Related Minerals, N.E.C., Industry. For census years prior to 1939, according to the United States Bureau of Mines, there was no production of bentonite.

11. Excludes nonproducing establishments as follows: for 1939, fire clay, 2 mines; feldspar, 1 mine and 1 plant. For 1929, feldspar, 3 establishments. For 1909, feldspar, 1 establishment; clay and related minerals, n.e.c., 17 establishments. For 1902, 7 clay and related minerals, n.e.c., 7 establishments.

12. For 1954, in addition to these establishments, 8 mines included in establishments classified in the manufacturing industries were reported. These mines produced and used in the same establishment 104 thousand tons of kaolin and ball clay, valued at approximately \$1,532 thousand. Man-hours worked by production, development, and exploration workers at these mines were 46 thousand; payroll, \$59 thousand; and cost of supplies, fuels, and purchased electric energy and contract work, \$33 thousand. Figures for these establishments are included in the totals for all clay and related minerals mines operated in 1954 and parts of manufacturing establishments. For 1939, includes data for 18 mines included in establishments classified in the manufacturing industries. These mines had products valued at \$362 thousand; with total employment of 197, of which 178 were production, development, and exploration workers; the corresponding payrolls were \$119 thousand and \$87 thousand, respectively; and cost of supplies, fuel, purchased electric energy and contract work was \$77 thousand.

13. Excludes data for one mining operation in Hawaii with less than 5 employees.

1954, and possibly for earlier years, excludes data for associated magnesite calcining operations. The quantity figures for magnesite included for 1954, and possibly for earlier years, represent shipments of crude material and transfers of crude or crushed and ground material to associated calcining plants.